

S-23 MAINTENANCE PAINTING OF STRUCTURAL STEEL

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23.01. SCOPE OF WORK

The work covered by this specification consists of the maintenance painting of structural steel and shall consist of surface preparation, supply and application of paint, and the drying and protection of painted surfaces.

23.02. REFERENCES

This specification refers to the following standards, specifications, or publications:

- OPSS 911

23.03. CLEANING

The Contractor shall thoroughly surface clean all of the structural steel and metalwork attached directly or indirectly to the structure, excluding icebreakers and sheet piling.

All contaminants and foreign matter shall be completely removed from surfaces to be painted by the use of solvents and appropriate tools.

All rusted areas shall be cleaned by a dry blast cleaning process which must remove all visible rust and mill scale. The grit used for sand blasting shall be silica quartz.

All cleaning and painting shall proceed by sections or spans as approved by the City Engineer, but in all cases, shall commence from the top of the structure.

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All surfaces to be painted shall be cleaned to the City Engineer's satisfaction. Prior to painting, all surfaces shall be absolutely clean and dry.

The prime coat shall be applied on the same day the surfaces are cleaned.

23.04. MATERIALS

Materials shall meet the requirements of OPSS 911, unless otherwise directed by the City Engineer.

23.05. APPLICATION OF PAINT

All surfaces to be painted shall be absolutely clean and dry.

Paint shall not be applied when the metal or air temperature is below 5 degrees Celsius, when the steel is wet, when the weather is misty or wet, or when there is danger of rain falling on wet paint.

Before application, the paint must be thoroughly mixed in the presence of the Contract Administrator. During painting, the paint in use must be vigorously stirred at intervals to keep all the pigments in suspension.

The primer shall be applied to all sand blasted areas of steel by brush, spray, or roller.

The intermediate coat shall be applied only to the primed areas.

The top paint coat shall be applied to the entire steel area of the structure.

The paint may be applied by brush, spray, or roller, unless otherwise specified in the contract documents, or unless, in the opinion of the City Engineer, conditions of high winds make spray painting impracticable.

Sufficient drying time shall be allowed so that each coat of paint is completely dry throughout the full thickness of the paint film before succeeding coats of paint are applied. Each paint coat shall be approved by the City Engineer before any succeeding coats are applied.

If the minimum dry film thickness of each of the paint coats is not obtained by one application, further coats shall be applied to obtain the minimum specified thickness.

23.06. PROTECTION

If, in the opinion of the City Engineer, traffic produces sufficient dust to be detrimental to the painting operations, the Contractor shall, at his own expense, allay the dust at the bridge site and take any other precautions to prevent dust and dirt from coming in contact with freshly painted surfaces.

Access facilities for inspection shall be supplied by the Contractor to all portions of the work and such access facilities shall meet with the approval of the City Engineer.

23.07. QUALITY ASSURANCE

Quality Assurance shall meet the requirements of OPSS 911.

23.08. BASIS OF PAYMENT

Payment at the contract unit price per item shall be full compensation for supplying all labour, equipment, and material for completing the work as herein prescribed.